Bruhat Bangalore Mahanagara Palike

Executive Engineer Yelahanka Division

Name of Work: Development of Footpath on Major Sandeep Unnikrishnan Road and Resurfacing of roads at Judicial layout in ward no 04 of Yelahanka Division (PACKAGE-10)

Sl No	Description of Items	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
	Civil Work								
1	Removing and refixing stone slabs of drains and pointing in CM (1:3) (P.No-27,I No-5.33)								
	Basic rate	105.00							
	Area Weightage 6%	6.30							
	Total	111.30							
		Sqm							
	JUDICIAL LAYOUT								
	9th Cross Road		2	174.00	0.90		313.20		
	10th Cross Road		2	165.00	0.90		297.00		
	25th Cross Road		2	106.00	0.90		190.80		
	Sandeep Unnikrishnan Road								
	LHS								
	2nd B cross		1	218.00	1.20		261.60		
	3rd B cross		1	358.00	1.20		429.60		
	RHS								
	2nd B cross		1	233.00	1.20		279.60		
	3rd B cross		1	285.00	1.20		342.00		
	RHS, Doddaballapura Rd to Flyover		1	779.00	1.20		934.80		
							3048.60		
							914.58		
	consider 30%						914.58	111.30	101792.75
	KSRRB M200-12.1. **Dismantling of existing structures** like culverts, bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts complete as per specifications KSRRB M200-12.2. –do– i) Lime /Cement Concrete. I. By Manual Means :B. Cement Concrete Grade M-15 & M-20 (I.NO 18.18,Page no 139 SR 2018-19)								
	Basic rate	557.00							
	Area Weightage 6%	33.42							
	Loading and Unloading & Lead 8KM	77.48							
	Total	667.90							
		Cum							
	Sandeep Unnikrishnan Road								
	Old Footpath								
	RHS, Doddaballapura Rd to Flyover								
	Reach-1		1	8.00	6.00	0.20	9.60		
	Reach-2		1	122.00	5.40	0.20	131.76		
	Reach-3		1	96.00	5.50	0.20	105.60		
	Reach-4		1	96.00	4.80	0.20	92.16		
	Reach-5		1	44.00	4.80	0.20	42.24		
	Reach-6		1	150.00	5.00	0.20	150.00		
			1	38.00	4.90	0.20	37.24		

Sl No	Description of Items	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
	Reach-8		1	225.00	5.50	0.20	247.50		
	LHS								
	2nd B cross		1	218.00	0.90	0.15	29.43		
	3rd B cross		1	358.00	2.30	0.15	123.51		
	RHS								
	2nd B cross		1	233.00	0.90	0.15	31.46		
	3rd B cross		1	285.00	2.60	0.15	111.15		
							1111.65		
	Deduct 25% Voids						277.91		
							833.73	667.90	556850.77
3	KSRRB300-1. **Earthwork excavation by manual means** for roads, drains & similar works in ordinary soil excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications.(I.NO 19.1,Page no 143 SR 2018-19)								
	Basic Rate	130.00							
	Area Weightage 6%	7.80							
	Loading and Unloading & Lead,8KM	77.48							
		215.28							
		Cum							
	For RCC DRAIN								
	JUDICIAL LAYOUT								
	9th Cross Road		2	174.00	1.20	1.10	459.36		
	10th Cross Road		2	165.00	1.20	1.10	435.60		
	25th Cross Road		2	106.00	1.20	1.10	279.84		
	For RCC CULVERT		3	7.30	1.50	1.10	36.14		
							1210.94		
	Deduct 15% Existing Drain Earthwork						181.64		
							1029.29		
	Debris		2	25.00	3.00	0.40	60.00		
	Drain Desilt								
	RHS, Doddaballapura Rd to Flyover		1	8.00	0.60	0.50	2.40		
	Reach-1		1	122.00	0.60	0.50	36.60		
	Reach-2		1	96.00	0.60	0.50	28.80		
	Reach-3		1	96.00	0.60	0.50	28.80		
	Reach-4		1	44.00	0.60	0.40	10.56		
	Reach-5		1	150.00	0.60	0.40	36.00		
	Reach-6		1	38.00	0.60	0.40	9.12		
	Reach-7		1	225.00	0.60	0.50	67.50		
	Reach-8								
	LHS		1	218.00	0.75	0.60	98.10		
	2nd B cross		1	358.00	0.75	0.50	134.25		
	3rd B cross								
	RHS		1	233.00	0.75	0.40	69.90		
	2nd B cross		1	285.00	0.75	0.40	85.50		
	3rd B cross						1696.82	215.28	365292.43

escription of Items	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
3 M2100-10. Providing and laying Plain cement concrete of mix 1:3:6 with OPC @ 220kgs, with ed 40mm and down size graded granite metal coarse aggregates @0.89cum and fine gates @ 0.46cum, in foundation mechanically mixed, placed in foundation and compacted by tion including curing for 14 days including cost of all materials, labour, HOM curing, form s, scaffolding and centering complete as per specifications. (P.No-222,I No-27.18 of PWD BCSR -19)								
Basic Rate	5115.00							
4.4*55.47	244.07	JR	,RA					
6% Area weightage	321.54							
Total	**5680.61**							
	Cum							
RCC DRAIN								
ICIAL LAYOUT								
Cross Road		2	174.00	1.20	0.15	62.64		
n Cross Road		2	165.00	1.20	0.15	59.40		
n Cross Road		2	106.00	1.20	0.15	38.16		
RCC CULVERT		3	7.30	1.50	0.15	4.93		
Footpath								
Cross Road		2	174.00	1.60	0.15	83.52		
h Cross Road		2	165.00	1.40	0.15	69.30		
ndeep Unnikrishnan ad								
otpath								
IS, Doddaballapura Rd to rover								
ach-1		1	8.00	6.00	0.15	7.20		
ach-2		1	122.00	2.60	0.15	47.58		
ach-3		1	96.00	2.50	0.15	36.00		
ach-4		1	96.00	2.50	0.15	36.00		
ach-5		1	44.00	4.80	0.15	31.68		
ach-6		1	109.00	5.00	0.15	81.75		
		1	41.00	2.40	0.15	14.76		
ach-7		1	38.00	4.90	0.15	27.93		
ach-8		1	180.00	5.50	0.15	148.50		
		1	45.00	2.50	0.15	16.88		
HS								
nd B cross		1	218.00	0.90	0.15	29.43		
rd B cross		1	358.00	2.30	0.15	123.51		
RHS								
2nd B cross		1	233.00	0.90	0.15	31.46		
3rd B cross		1	285.00	2.60	0.15	111.15		
						1061.77	**5680.61**	**6031489.29**
KSRRB M2200-6. Providing TMT Bars Fe 500 steel reinforcement for R.C.C. work including straightening, cutting, bending, hooking, placing in postion, lapping and/or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM complete as per specification.(I.NO 28.8.2 Page no 229, SR 2018-19)								
Basic Rate	75610.00							
Area Weightage 6%	4536.60							
	80146.60							
	Tn							

Description of Items	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
der 65kg/cum for drain		1	293.70		0.065	19.09		
ider 100kg/cum for rt		1	13.12		0.10	1.31		
						20.40	80146.60	1635175.779
viding and laying plain/reinforced cement concrete for side drains using **M20 nominal mix rete with OPC at 300 kgs.** With 20mm and sown size granite metal course aggregates at 0.69 and fine aggregates at 0.43 cum machine mixed, well compcted for walls and bottom including ring shuttering cost of material HOM of machinary curing etc., complete execluding cost of steel er MORTH specification no. 1500, 1700, 2200 including cost of material labour HOM complete er specification. (P.No.271, I.No.37.59.2 of PW, P&IWTD S.R 2018-19)								
Basic rate	6670.00							
6*55.47	332.82							
6% Area weightage	420.17							
Total	**7422.99**							
	Cum							
RCC DRAIN RAFT								
ICIAL LAYOUT								
Cross Road		2	174.00	1.00	0.15	52.20		
h Cross Road		2	165.00	1.00	0.15	49.50		
h Cross Road		2	106.00	1.00	0.15	31.80		
RCC DRAIN WALL								
ICIAL LAYOUT								
Cross Road		4	174.00	0.15	0.60	62.64		
h Cross Road		4	165.00	0.15	0.60	59.40		
h Cross Road		4	106.00	0.15	0.60	38.16		
						293.70		
r RCC CULVERT RAFT		3	7.30	1.30	0.23	6.55		
r RCC CULVERT WALL		6	7.30	0.25	0.60	6.57		
						13.12		
ndeep UnniKrishna Road								
r RCC DRAIN Coping								
S, Doddaballapura Rd to yover								
each-1		2	8.00	0.15	0.10	0.24		
each-2		2	122.00	0.15	0.10	3.66		
each-3		2	96.00	0.15	0.10	2.88		
each-4		2	96.00	0.15	0.10	2.88		
each-5		2	44.00	0.15	0.10	1.32		
each-6		2	109.00	0.15	0.10	3.27		
		2	41.00	0.15	0.10	1.23		
each-7		2	38.00	0.15	0.10	1.14		
each-8		2	180.00	0.15	0.10	5.40		
		2	45.00	0.15	0.10	1.35		
						330.19	**7422.99**	**2450982.70**
roviding and Fixing **pre cast covering Slab 100mm thick** made out of CC 1:2:4 and jelly 20mm Down size with steel reinforcement including form work,curing,including cost of alll materials, abour,hire charges of machinery, loading, unloading, lead and lift,transportation etc ,complete.As per Engineer incharge. (Data Rate)								
Data Rate	2337.00							
	Sqm							

Description of Items	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
RCC DRAIN COVERING								
3								
ICIAL LAYOUT								
Cross Road		2	174.00	0.90		313.20		
ı Cross Road		2	165.00	0.90		297.00		
ı Cross Road		2	106.00	0.90		190.80		
deep UnniKrishna Road								
RCC DRAIN Coping								
; Doddaballapura Rd to								
over								
ıch-1		1	8.00	0.90		7.20		
ıch-2		1	122.00	1.20		146.40		
ıch-3		1	96.00	1.20		115.20		
ıch-4		1	96.00	1.20		115.20		
ach-5		1	44.00	1.20		52.80		
ach-6		1	109.00	1.20		130.80		
		1	41.00	1.20		49.20		
ach-7		1	38.00	1.20		45.60		
ach-8		1	180.00	1.20		216.00		
		1	45.00	1.20		54.00		
S								
d B cross		1	218.00	1.20		261.60		
d B cross		1	358.00	1.20		429.60		
HS								
ıd B cross		1	233.00	1.20		279.60		
d B cross		1	285.00	1.20		342.00		
						3046.20		
			Consider 70%			2132.34		
ıoulder Drain								
HS								
nd B cross		9	1.50	0.60		8.10		
rd B cross		14	2.80	0.60		23.52		
HS								
andeep Unni Krishna Road		20	5.50	0.60		66.00		
nd B cross		9	1.50	0.60		8.10		
rd B cross		14	3.00	0.60		25.20		
UDICIAL LAYOUT								
th Cross Road		12	2.10	0.60		15.12		
0th Cross Road		10	1.80	0.60		10.80		
						156.84		
						2289.18	2337.00	5349813.66
(SRB 5-8.2 : **Providing two line dressing** to granite stone slab / granite stone masonry as per specifications. KBS 5.1.13 (P.No-26, I No-5.18)								
Basic Rate	1495.00							
Area Weightage 6%	89.70							
	1584.70							
	Sqm							
JUDICIAL LAYOUT								
9th Cross Road		2	174.00	0.90		313.20		
10th Cross Road		2	165.00	0.90		297.00		
25th Cross Road		2	106.00	0.90		190.80		
						801.00		

ription of Items	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
house						240.30		
			Consider 30%			240.30	1584.70	380803.41

; and fixing RCC precast cover slab of 250mm thick for drain in cement concrete 1:1.5:3 ded granite jelly 20mm and down size with steel reinforcement, including form work, lift curing and concrete finished surfaces on both sides etc, complete and as per drawing and tions of Engineer in-charge. (Data Rate)

Data Rate	5418.00							
	5418.00							
	Sqm							
CULVERT COVERING								
		3	7.30	1.20		26.28		
CULVERT Damaged NG SLAB								
		15	1.20	0.60		10.80		
						37.08	5418.00	200899.44

-1.6 ; Providing and laying in position plain cement concrete of Mix 1:2:4 with OPC @ with 20mm and down size graded granite metal coarse aggregates @ 0.878 cum and fine es @ 0.53cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well :ted, in foundation, plinth and cills, including cost of all materials, labour, HOM curing te as per specifications. Specification No. KBS 4.1, 4.2. (P.No-13,I No-4.6)

Basic rate	5422.00							
4.8*55.47	266.25	TR,	RA					
6% AW	341.30							
Sub Total	6029.55							
	Cum							
ep Unnikrishan Rd								
ath								
rb Stones								
oddaballapura Rd to r								
-1		1	8.00	0.20	0.125	0.20		
-2		3	122.00	0.20	0.125	9.15		
-3		3	96.00	0.20	0.125	7.20		
-4		3	96.00	0.20	0.125	7.20		
-5		1	44.00	0.20	0.125	1.10		
-6		1	109.00	0.20	0.125	2.73		
		3	41.00	0.20	0.125	3.08		
-7		1	38.00	0.20	0.125	0.95		
-8		1	180.00	0.20	0.125	4.50		
		3	45.00	0.20	0.125	3.38		
Roads Turnings & rds House Entrance s								
3 cross		10	2.10	0.20	0.125	0.53		
3 cross		16	3.80	0.20	0.125	1.52		
eep Unni Krishna Road		100	6.50	0.20	0.125	16.25		
B cross		8	2.10	0.20	0.125	0.42		
3 cross		10	3.80	0.20	0.125	0.95		
Guards		130	8.00	0.20	0.125	26.00		

ription of Items	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
ss		1	218.00	0.20	0.125	5.45		
is		1	358.00	0.20	0.125	8.95		
ss		1	233.00	0.20	0.125	5.83		
ss		1	285.00	0.20	0.125	7.13		
. LAYOUT								
; Road		2	174.00	0.20	0.125	8.70		
ss Road		2	165.00	0.20	0.125	8.25		
ss Road		2	106.00	0.20	0.125	5.30		
r Drain Bed								
oss		9	1.50	0.60	0.125	1.01		
oss		14	2.80	0.60	0.125	2.94		
Unni Krishna Road		20	5.50	0.60	0.125	8.25		
oss		9	1.50	0.60	0.125	1.01		
oss		14	3.00	0.60	0.125	3.15		
L LAYOUT								
ss Road		12	4.20	0.60	0.125	6.30		
oss Road		10	3.60	0.60	0.125	4.50		
er Drain Coping								
o Unni Krishna Road		40	5.50	0.15	0.125	4.13		
ross		18	1.50	0.15	0.125	0.51		
ross		28	3.00	0.15	0.125	1.58		
AL LAYOUT								
ss Road		24	4.20	0.15	0.125	1.89		
ross Road		20	3.60	0.15	0.125	1.35		
Bed Correction								
cross		1	218.00	0.75	0.125	20.44		
cross		1	358.00	0.75	0.125	33.56		
cross		1	233.00	0.75	0.125	21.84		
cross		1	285.00	0.75	0.125	26.72		
ng Course PCC								
cross		0.8	218.00	0.15	0.125	3.27		
cross		0.8	358.00	0.15	0.125	5.37		
cross		0.8	233.00	0.15	0.125	3.50		
cross		0.8	285.00	0.15	0.125	4.28		
ing Course Coping								
cross		2	218.00	0.15	0.100	6.54		
cross		2	358.00	0.15	0.100	10.74		
cross		2	233.00	0.15	0.100	6.99		
cross		2	285.00	0.15	0.100	8.55		
						323.14	6029.55	1948409.78

Description of Items	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
'iding and fixing pre cast solid cement concrete kerb stones made out of CC 1:2:4 with top and om width 114 and 165 mm respectively, 400mm high and 450mm in length finished with CM plastering and finishing cutting including formwork, curing, including cost of materials, labour 'ges of machinery, loading and unloading, lead and lift, transportation ete.,complete. (I No-),P No-27 of PWD BCSR 2018-19)								
Basic Rate	408.00							
Area Weightage 6%	24.48							
	432.48							
	Nos							
KERB								
ICIAL LAYOUT								
Cross Road		2	174.00			348.00		
h Cross Road		2	165.00			330.00		
h Cross Road		2	106.00			212.00		
tpath								
S, Doddaballapura Rd to over								
ich-1		1	8.00			8.00		
ich-2		3	122.00			366.00		
ach-3		3	96.00			288.00		
ach-4		3	96.00			288.00		
ach-5		1	44.00			44.00		
ach-6		1	109.00			109.00		
		3	41.00			123.00		
ach-7		1	38.00			38.00		
ach-8		1	180.00			180.00		
		3	45.00			135.00		
oss Roads Turnings & llards House Entrance rbs								
S								
d B cross		10	2.10			21.00		
d B cross		16	3.80			60.80		
IS								
ndeep Unni Krishna Road		100	6.50			650.00		
d B cross		8	2.10			16.80		
d B cross		10	3.80			38.00		
ee Guards		130	8.00			1040.00		
IS								
d B cross		0.6	218.00			130.80		
d B cross		0.6	358.00			214.80		
HS								
d B cross		0.6	233.00			139.80		
d B cross		0.6	285.00			171.00		
						4952.00		
						11004.00	**432.48**	**4759009.92**

ainting two coats after filling the surface with synthetic enamel paint in approved shades on new lastered concrete surfaces, with materials, labour complete as per specifications. MORTH Chapter Specification No. KSRRB M800-6. (P.No.180, I.No.24.1 of PW, P&IWTD SR 2018-19)

Basic Rate	80.00							
Area Weightage 6%	4.80							
	84.80							

Description of Items	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
	Sqm							
KERB								
ICIAL LAYOUT								
Cross Road		2	174.00	0.30		104.40		
Cross Road		2	165.00	0.30		99.00		
Cross Road		2	106.00	0.30		63.60		
ss Roads Turnings & ards House Entrance bs								
B cross		10	2.10	0.30		6.30		
B cross		16	3.80	0.30		18.24		
S								
B cross		8	2.10	0.30		5.04		
B cross		10	3.80	0.30		11.40		
S								
d B cross		1	218.00	0.30		65.40		
l B cross		1	358.00	0.30		107.40		
S								
d B cross		1	233.00	0.30		69.90		
d B cross		1	285.00	0.30		85.50		
						636.18	84.80	53,948.06

RB 5-14 : Providing and constructing load bearing wall **with solid concrete blocks** of size 0x200x200 mm having block density not lessthan 1800 kg/m3 and having a minimum average mpressive strength 4.00 N/mm2 confirming to IS 2185 (Part) : 2005 and constructed with CM 1:4 , per IS 2572:2005 including cost of all materials, labour charegs, scaffolding, curing complete as r specifications. KBS No.5.4 I.No.5.26.2, Page no 27

Basic rate	924.00	962						
Area Weightage 6%	55.44							
Total	979.44							
	Sqm							
elahanka New Town								
agging Course								
HS								
nd B cross		2	218.00		0.20	87.20		
rd B cross		2	358.00		0.20	143.20		
HS								
nd B cross		2	233.00		0.20	93.20		
rd B cross		2	285.00		0.20	114.00		
						437.60		
			consider 40%			175.04		
houlder Drain Bed								
HS								
nd B cross		18	1.50		0.20	5.40		
rd B cross		28	2.80		0.20	15.68		
RHS								
Sandeep Unni Krishna Road		40	5.50		0.20	44.00		
2nd B cross		18	1.50		0.20	5.40		
3rd B cross		28	3.00		0.20	16.80		
Yelahanka 4th Phase								
Shoulder Drain								
9th Cross Road		24	4.20		0.20	20.16		
10th Cross Road		20	3.60		0.20	14.40		

Description of Items	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
						296.88	979.44	290776.15
RB 14.6 : Providing and laying **heavy duty cobble stones** interlock pavers, 60mm thick using ment and course sand for manufacture of blocks of approved size, shape and colour with a inimum compressive strength of 281 kg per sqm over 50mm thick sand bed (average thickness) d compacting with plate vibrator having 3 tons compaction force thereby forcing part of sand derneath to come up in between joints, final compaction of paver surface joints into its final level, cluding cost of materials, labour and HOM complete as per specifications. Specification No. KBS ,No-103,I No-14.6 of PWD BCSR 2018-19), 60mm thick								
Basic Rate	1053.00							
Area Weightage 6%	63.18							
	1116.18							
	Sqm							
ootpath								
andeep Unnikrishnan oad								
HS, Doddaballapura Rd to yover								
each-1		1	8.00	6.00		48.00		
each-2		1	122.00	2.60		317.20		
each-3		1	96.00	2.50		240.00		
each-4		1	96.00	2.50		240.00		
each-5		1	44.00	4.80		211.20		
each-6		1	109.00	5.00		545.00		
		1	41.00	2.40		98.40		
each-7		1	38.00	4.90		186.20		
each-8		1	180.00	5.50		990.00		
		1	45.00	2.50		112.50		
HS								
nd B cross		1	218.00	0.90		196.20		
rd B cross		1	358.00	2.30		823.40		
RHS								
nd B cross		1	233.00	0.90		209.70		
rd B cross		1	285.00	2.60		741.00		
Deduct Shoulder Drain								
LHS								
2nd B cross		-9	1.50	0.60		-8.10		
3rd B cross		-14	2.80	0.60		-23.52		
RHS								
Sandeep Unni Krishna Road		-20	5.50	0.60		-66.00		
2nd B cross		-9	1.50	0.60		-8.10		
3rd B cross		-14	3.00	0.60		-25.20		
JUDICIAL LAYOUT								
9th Cross Road		2	174.00	1.60		556.80		
10th Cross Road		2	165.00	1.30		429.00		
Deduct Tree Guards								
9th Cross Road		-11	1.00	1.00		-11.00		
10th Cross Road		-10	1.00	1.00		-10.00		
Shoulder Drain								
9th Cross Road		-12	2.10	0.60		-15.12		
10th Cross Road		-10	1.80	0.60		-10.80		
						5766.76	1116.18	6436742.18

Description of Items	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
ly, Fabrication, Painting and Fixing of Pre-Cast Bollards for Footpath and Property edge/ lians etc and any other items as specified in drawings or as approved by Engineer Incharge. a Rate)								
rate	1240.00 Each							
deep Unnikrishnan d								
ards for Cross ds/House Entrance								
ng the road, Sandeep i Krishna Road		750				750.00		
ss Roads Turnings & lards House Entrance bs								
		10	3.00			30.00		
l B cross		24	4.00			96.00		
B cross								
S		100	6.00			600.00		
deep Unni Krishna Road		8	3.00			24.00		
l B cross		10	4.00			40.00		
l B cross						1540.00	1240.00	1909600.00
ecutive Bench- Made out of Sadarahalli grey stone with hand supports with 3 line finishing with h design with 100mm slabs. Height 90x Length 1500 width 45 cms (Data approved rate)								
Data Rate	18200.00 Each							
		40				40.00		
						40.00	18200.00	728000.00
RRB M300-18. Wrought iron and mild steel welded work (using angles, square bars, tees and annel grills, grating frames, gates and tree guards of any size and design etc. including cost of reens and welding rods or bolts and nuts complete fixed in position but without the cost of cavation and concrete for fixing which will be paid separately complete as per specifications. .No-151 of I.No.19.97 of PWD BCSR 2018-19) P- No - 150								
sic rate	7187.00							
ea Weightage 6%	431.22							
tal	7618.22 Qtl							
ndeep Unnikrishnan oad								
r Shoulder Drain								
HS		1	76.00		0.106	8.06		
						8.06	7618.22	61,372.38
SRRB M300-14. Excavation for roadwork in soil with hydraulic excavator of 0.9 cum bucket apacity including cutting and loading in tippers, trimming bottom and side slopes, in accordance ith requirements of lines, grades and cross sections, and transporting to the embankment location a lead of 1km and complete as per specifications. MORTH Specification No.301 (P.No-143, I No-9.14)								
Basic rate	41.00							
6% Area weightage	2.46							
Sub TotalTotal	43.46							

Description of Items	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
8km Lead	20.48							
Total	63.94							
	Cum							
JUDICIAL LAYOUT								
8th Cross Road		2	400.00	1.00	0.35	280.00		
9th Cross Road		2	174.00	0.90	0.35	109.62		
10th Cross Road		2	172.00	0.90	0.35	108.36		
25th Cross Road		2	113.00	0.85	0.35	67.24		
15th Main Road		2	140.00	0.90	0.35	88.20		
16th Main Road		2	103.00	0.80	0.35	57.68		
10th Main Road		2	590.00	1.00	0.35	413.00		
						1124.10	63.94	71,874.63

Construction of **granular sub-base Grading-V as Sub-base** and drainage layer by providing coarse graded crushed stone aggregates of granite/ trap/basalt material, mixing in a mechanical mix plant at OMC, Carriage of mixed material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the 98 % proctor density, complete as per specifications Clause 401 of MORTH V Revision.(I No-20.5,P No-153)

Basic Rate	1882.00							
Area Weightage 6%	112.92							
	1994.92							
	Cum							
JUDICIAL LAYOUT								
8th Cross Road		2	400.00	1.00	0.18	144.00		
9th Cross Road		2	174.00	0.90	0.18	56.38		
10th Cross Road		2	172.00	0.90	0.18	55.73		
25th Cross Road		2	113.00	0.85	0.18	34.58		
15th Main Road		2	140.00	0.90	0.18	45.36		
16th Main Road		2	103.00	0.80	0.18	29.66		
10th Main Road		2	590.00	1.00	0.18	212.40		
						578.11	1994.92	1153275.22

KSRRB M400-17. Providing, laying, spreading and compacting cushed stone aggregates of granite / trap / basalt to **wet mix macadam** specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed materials by tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications(P.No-155,I No-20.18)

Basic Rate	1888.00							
Area Weightage 6%	113.28							
	2001.28							
	Cum							
JUDICIAL LAYOUT								
8th Cross Road		2	400.00	1.00	0.225	180.00		
9th Cross Road		2	174.00	0.90	0.225	70.47		
10th Cross Road		2	172.00	0.90	0.225	69.66		
25th Cross Road		2	113.00	0.85	0.225	43.22		
15th Main Road		2	140.00	0.90	0.225	56.70		
16th Main Road		2	103.00	0.80	0.225	37.08		
10th Main Road		2	590.00	1.00	0.225	265.50		
						722.63	2001.28	1446189.97

Description of Items	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
RB M500-6. Providing and applying primer coat with S.S. bitumen emulsion on prepared surface ranular base such as WMM including cleaning of road surface and spraying primer at the rate of) kg / sqm using mechanical means complete as per specifications Clause 502 of MORTH V sion(P.No-158,I No-21.6),								
Basic Rate	32.00							
Area Weightage 6%	1.92							
	33.92							
	Sqm							
ICIAL LAYOUT								
Cross Road		2	400.00	1.00		800.00		
Cross Road		2	174.00	0.90		313.20		
h Cross Road		2	172.00	0.90		309.60		
h Cross Road		2	113.00	0.85		192.10		
h Main Road		2	140.00	0.90		252.00		
h Main Road		2	103.00	0.80		164.80		
h Main Road		2	590.00	1.00		1180.00		
						3211.70	**33.92**	**108940.86**
RB 500-2. **Cleaning the existing black topped surface** with brooms, soft brushes and finally ting with old gunny bags and / or compressed air to receive bituminous treatment including cost ll materials, labour, HOM complete as per specifications. (P.No-158,I No-21.2),								
Basic Rate	5.00							
Area Weightage 6%	0.30							
	5.30							
	Sqm							
ICIAL LAYOUT						10052.00		
Area						3211.70		
M Area						**6840.30**	**5.30**	**36,253.59**
RB M500-17. Providing and laying **dense graded bituminous macadam** using crushed regates of specified grading, premixed with VG30 grade bituminous binder and, transporting the mix to work site, laying to the required grade, level and alignment, rolling with smooth wheeled, ratory and tandem rollers to achieve the desired compaction in all respects complete as per cifications Clause 505 of MORTH V revisionusing 40/60 TPH capacity H.M.P. with Mechanical er Gr-II (50 mm to 75 mm) with 4.5 % VG-30 Bitumen (P.No-160,I No-21.17.6) issue rate Dated 01-2021								
Basic Rate	6880.00							
Area Weightage 6%	412.80							
	7292.80							
	Cum							
DICIAL LAYOUT								
Cross Road		2	400.00	1.00	0.05	40.00		
Cross Road		2	174.00	0.90	0.05	15.66		
th Cross Road		2	172.00	0.90	0.05	15.48		
th Cross Road		2	113.00	0.85	0.05	9.61		
th Main Road		2	140.00	0.90	0.05	12.60		
th Main Road		2	103.00	0.80	0.05	8.24		
th Main Road		2	590.00	1.00	0.05	59.00		
DICIAL LAYOUT								
% Profile correction		0.3	400.00	5.50	0.05	33.00		
Cross Road		0.3	174.00	6.00	0.05	15.66		
Cross Road		0.3	172.00	5.80	0.05	14.96		
th Cross Road		0.3	113.00	7.00	0.05	11.87		
th Cross Road								

Description of Items	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
n Main Road		0.3	140.00	6.30	0.05	13.23		
n Main Road		0.3	103.00	5.80	0.05	8.96		
n Main Road		0.3	590.00	6.00	0.05	53.10		
						311.37	**7292.80**	**2270722.67**
RB 500-7. Providing and applying **tack coat** using 80/100 grade bitumen(VG10) on the prepared :k topped surfaces at 2.5 kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding ıning of road surface) including cost of all materials, labour, HOM complete as per specifications Vo-161,I No-21.7)								
Basic Rate	12.00							
Area Weightage 6%	0.72							
	12.72							
	Sqm							
DICIAL LAYOUT								
Cross Road		1	400.00	5.50		2200.00		
Cross Road		1	174.00	6.00		1044.00		
h Cross Road		1	172.00	5.80		997.60		
h Cross Road		1	113.00	7.00		791.00		
h Main Road		1	140.00	6.30		882.00		
h Main Road		1	103.00	5.80		597.40		
th Main Road		1	590.00	6.00		3540.00		
						10052.00	**12.72**	**127861.44**
oviding and laying **bituminous concrete 40mm thick** with hot mix plant, using crushed aggregates specified grading, premixed with bituminous binder and filler, transporting the hot mix to work e, laying with a paver finisher to the required grade, level and alignment, rolling with smooth heeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as r specifications. Clause 507 of MORTH V revision as per IRC SP-53-2015. using – do – using 40-60 H capacity HMP with mechanical paver grading II (30-45mm) with 5.4 % of modified bituminus nder consisting of 4.97% of VG-30 bitumen (60/70 grade) and 0.43% of plastomeric thermoplastics aste plastic) (P.No.171, I.No.21.78.12) issue rate Dated 01-01-2021								
Basic Rate	8061.00							
Area Weightage 6%	483.66							
	8544.66							
	Cum							
IDICIAL LAYOUT								
h Cross Road		1	400.00	5.50	0.03	66.00		
h Cross Road		1	174.00	6.00	0.04	41.76		
0th Cross Road		1	172.00	5.80	0.04	39.90		
5th Cross Road		1	113.00	7.00	0.04	31.64		
5th Main Road		1	140.00	6.30	0.04	35.28		
5th Main Road		1	103.00	5.80	0.04	23.90		
0th Main Road		1	590.00	6.00	0.04	141.60		
						380.08	**8544.66**	**3247654.37**
SRRB M800-13.**Road Marking** with Hot Applied Thermoplastic Compound with Reflectrising Glass eads on Bituminous Surface/ Concrete Surface: Providing and laying of hot applied thermoplastic ompound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of .5 mm is exclusive of surface applied glass beads as per IRC:35 standards specified. The finished urface to be level, uniform and free from streaks and holes complete as per specifications. MORTH pecification No. 803(P.No-182,I No-24.15)								
Basic Rate	429.00							
Area Weightage 6%	25.74							
	454.74							
	Sqm							

Description of Items	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
JUDICIAL LAYOUT								
8th Cross Road		2	400.00	0.10		80.00		
9th Cross Road		2	174.00	0.10		34.80		
10th Cross Road		2	172.00	0.10		34.40		
25th Cross Road		2	113.00	0.10		22.60		
15th Main Road		2	140.00	0.10		28.00		
16th Main Road		2	103.00	0.10		20.60		
10th Main Road		2	590.00	0.10		118.00		
						338.40	**454.74**	**153884.02**

Supply and fixing of **Retro Reflective Single Arrow Road NameSignboard** of size 1600mm x 900mm made out of retro reflective sheeting conforming to Type XI standards of ASTM D 4956 - 09 & as per IRC 67-2012 for full back ground of blue colour & white letters and fixed over 4 mm thick Aluminium Composite Material sheet having minimum 0.5 mm thick Aluminium skin on both sides with back side painted grey colour and fixed over back support frame SS angle of 15mm x 20mm x 1.2mm, supported by 38mm OD stainless steel pipe all round in 304 grade and 2 nos of vertical posts of 50 mm OD stainless steel pipe of 202 grade firmly fixed to the ground by means of properly designed foundation of size 450mm x 450mm x 600mm in 1:1.5:3 ratio cement concrete. The background shall be blue in color with letters and border in white,the item includes earthwork excavation, cost of all materials, loading,unloading, lead, lift, transportation etc., complete. as per direction of engineer incharge of work clause 6.9 of IRC 67-2012 for Type XI retro reflective sheeting from the sheeting manufacturer & a certified copy of test reports from an independent test laboratory conforming to clause 6.7 of IRC 67-2012 including outdoor weather exposure report for the retro reflective sheeting offered shall be submitted by the contractor for technical qualification in the tender (P.No~~-103,I No 24-59~~ of PWD BCSR 2018-19),

Administrative Sanction for Rs. 5DD.00 lakhs
Purchase Five Store Cots
is accorded under head P-3025
Special comprehensive development works
Registered as CE No. 06
P-190, I No-24-59
to conditions contained in enclosed Memo
No. BBMP/EE/YNK/DA/06/2021-22 Dt 08/12/21
Executive Engineer

Basic rate	13297.00							
Area Weightage 6%	797.82							
Total	**14094.82**							
	Sqm							
JUDICIAL LAYOUT								
		4	1.60	0.90		5.76		
						5.76	**14094.82**	**81,186.16**
							Total Construction Cost	**41958801.65**
							Towards GST 12%	**4947696.20**
							Towards Tender Premium 5%	**2097940.08**
							DPR & PMC Charges 2%	**995000.00**
							Sub Total	**49999437.93**
							Miscellaneous & Rounding Off	**562.07**
							Total	**50000000.00**

Technical Sanction
Accorded For RS 5DD.00 lakhs only
Head of A/C P 3025
CER NO : 01 **Dt:** 15.04.2022
TA. CE (YNK)

Certificate

1. The workspot was inspected and works is found to be necessary.
2. The area comes within the Bruhat Bangalore Mahanagara Palike limits.
3. The rates adopted based on the PWD SR,Bangalore circle for year 2018-2019, issue rates dated 01-01-2021 and Data Rates

Assistant Engineer
Ward 03 & 04
BBMP Bangalore

Asst. Executive Engineer
Yelahanka New Town Sub Division
BBMP Bangalore

Executive Engineer
Yelahanka Division
BBMP Bangalore